

WHAT IS CLAIMED IS:

1. A method of controlling the coupling of multi-platform reservoir and network simulators comprising:
 - synchronizing the advancement through time of the simulators; and
 - converting the hydrocarbon fluid streams between different sets of pseudo-components used in the simulators.
2. A controller for coupling multi-platform reservoir and network simulators comprising means for synchronizing the advancement through time of the simulators and means for converting the hydrocarbon fluid streams between different sets of pseudo-components used in the simulators.
3. The controller of claim 3 additionally comprising means for applying production and injection constraints.
4. The controller of claim 3 additionally comprising means for balancing reservoir and surface networks.
5. A controller for coupling multi-platform reservoir and network simulators substantially as described herein.